

**INTERNATIONAL SEARCH REPORT**

International Application No  
PCT/EP2004/002864

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> IPC 7 H05K5/06 H01L23/10 B60R16/02 G12B9/02 F16B11/00					
According to International Patent Classification (IPC) or to both national classification and IPC					
<b>B. FIELDS SEARCHED</b>					
Minimum documentation searched (classification system followed by classification symbols) IPC 7 H05K H01L B60R G12B F16B					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data					
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>					
Category *	Citation of document, with indication, where appropriate, of the relevant passages				Relevant to claim No.
Y	EP 0 309 920 A (HITACHI LTD) 5 April 1989 (1989-04-05) column 3, line 22 - column 5, line 14; figures 1-3				1-9, 11-16
Y	US 4 629 824 A (GILDER JR THOMAS G ET AL) 16 December 1986 (1986-12-16) column 3, lines 6-20; figure 5				1-9, 11-16
A	US 5 689 089 A (POLAK ANTHONY J ET AL) 18 November 1997 (1997-11-18) column 2, line 48 - column 3, line 36; figures 1A,1B				10,17
A	FR 2 655 809 A (SIEMENS AUTOMOTIVE SA) 14 June 1991 (1991-06-14) the whole document				1
					-/-
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C.			<input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents :					
*A* document defining the general state of the art which is not considered to be of particular relevance			*T* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
*E* earlier document but published on or after the International filing date			*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
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Date of the actual completion of the International search			Date of mailing of the International search report		
27 May 2004			04/06/2004		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016			Authorized officer  Blondeau, A		

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<b>C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
<b>Category</b>	<b>Citation of document, with indication, where appropriate, of the relevant passages</b>	<b>Relevant to claim No.</b>
A	US 2002/112870 A1 (KOBAYASHI TOSHIKI ET AL) 22 August 2002 (2002-08-22) the whole document -----	1

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Information on patent family members

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